A Community Resource for Employment, Education and Enrichment

Winter 2012

Volume 14 • Issue 3

CareerFocus™

WCC math and science classes built the foundation of **Justin Fitins'** healthcare career.

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Follow the QR codes to read the online CareerFocus with quick links to video interviews, videos highlights of WCC's programs, and dozens of other online resources.

http://www.wccnet.edu/about-us/career-focus/

CareerFocus™

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Look Closer at Washtenaw Community College

How much do you know about your community college?

Whether it's quick job training or long-term profession building, WCC is Washtenaw County's most responsive resource for higher education. Do you know how many residents the College serves or how our graduates benefit the community? Test your knowledge now!

1 How much does one semester of full-time tuition cost at WCC?

- ☐ A. $1,380
- ☐ B. $4,341
- ☐ C. $6,220
- ☐ D. $16,050

2 What percentage of WCC students receive financial aid?

- ☐ A. 15 percent
- ☐ B. 24 percent
- ☐ C. 35 percent
- ☐ D. 39 percent

3 What's the average yearly amount WCC students receive in financial aid?

- ☐ A. $1,632
- ☐ B. $2,645
- ☐ C. $3,590
- ☐ D. $5,284

4 How many students take credit classes at WCC every year?

- ☐ A. 6,700
- ☐ B. 12,400
- ☐ C. 19,200
- ☐ D. 23,200

5 What percentage of WCC students are under 25 years old?

- ☐ A. 32 percent
- ☐ B. 40 percent
- ☐ C. 54 percent
- ☐ D. 76 percent

6 How many different credit programs does WCC offer?

- ☐ A. 42
- ☐ B. 69
- ☐ C. 104
- ☐ D. 168

7 Which Washtenaw County employers hire the most WCC graduates in their profession?

- ☐ A. University of Michigan
- ☐ B. University of Michigan Health System
- ☐ C. St. Joseph Mercy Health System
- ☐ D. Ford Motor Company

8 Which universities receive the most WCC transfer students?

- ☐ A. University of Phoenix
- ☐ B. University of Michigan
- ☐ C. Eastern Michigan University
- ☐ D. Michigan State University

Answer Key

1-A
That's $1,380 for a full-time 15 credit hour semester at WCC. Talk about a deal!

Compare that to Eastern Michigan University where you'll pay $4,341 for 15 credit hours, the University of Michigan where you'll pay $6,220 for 12-18 credit hours or a typical private college, such as Albion, where tuition is $16,050 for one full-time semester.

2-D
39 percent. While WCC's tuition is low, many students still qualify for federal financial aid. In 2009/2010 over 8,000 WCC students received some kind of federal financial aid in the form of grants, loans or work study. Although eligibility depends on income, you never know until you try!

3-D
$5,284 is the average amount awarded for students who qualify for financial aid or scholarships.

Financial aid can be a mixture of grants and scholarships (which don't have to be paid back), student loans (which do need to be paid back) and work-study, which allows students to earn money while they're in college.

4-D
In 2009/2010 more than 23,000 students enrolled in at least one credit class at WCC.

5-C
54 percent of WCC students are between the ages of 17 to 24. The next largest group is the 40 percent of students who are ages 25 to 50.

6-D
The 168 programs of study at WCC range from short-term certificates that get you into a job quickly or associate's degrees that prepare you for transfer or a profession.

Students can earn one of 55 short-term certificates in everything from auto body to welding, culinary to technical writing or child development to computer software. WCC's 42 advanced certificates allow students to add a few more credits and build on their foundation of skills. The 44 associate in applied science degrees provide job skills with just two years of study, and the 27 associate of art or science degrees prepare students to transfer to four-year universities.

7-B
The University of Michigan Health System employs the largest number of WCC grads. That's followed by St. Joseph Mercy Health System and the University of Michigan.

8-C
More WCC students transfer to Eastern Michigan University than any other university. Coming in second is the University of Michigan. Colleges such as Michigan State University, Western Michigan University and the University of Phoenix, regularly fill out the top five. CF

Up Close and Personal

Making real connections is key to job search success

By James Militzer

A recent report by the National Bureau of Economic Research found that during the Great Recession, unemployed people spent about half of their lost work hours on sleep and leisure activities. The amount they dedicated to finding a job? About one percent.

With jobs scarce and the economy weakening, it's hard to stay engaged in your job search. But according to experts, persistence will pay off. "A lot of the fundamentals of a job search only work if you push through your discouragement and give them a chance," says Michael Petras, executive recruiter and author of "Why Don't They Call Me?," "Get up early, just like you're going to work. Take a shower, get dressed, and have a plan every day. If you continually expose yourself to other people and opportunities, you are eventually going to find something."

Connection matters

Caroline Dowd-Higgins, career coach and author of "This Is Not the Career I Ordered" says, "It's tempting to just do your job search from behind a computer screen, and websites like Monster and CareerBuilder are so helpful. But thousands of people are applying for those same jobs, so you've got to have a multi-pronged approach.

"Experts say that 10 percent of your job search should be conducted online, and 90 percent of it should be out there in person. Go to networking events, check with your local Chamber of Commerce, join a professional organization or even a book club–just get yourself out there. Because at the end of the day, people hire who they know, and who they trust."

Attend networking events and professional organizations, and be proactive, says Martha Finney, HR consultant and author of "Money with Meaning." "Don't just hang around –make yourself useful. Tap into your enthusiasm, your smarts, your energy. Volunteer for committees or the annual conference. They'll be happy to see you, and eventually somebody will say, 'Boy, I'd like to see that person in my office.'"

Show your worth

Dowd-Higgins agrees, "You've got to be your own best self-advocate in your job search. It's not enough to describe yourself as a hard worker or a people person. At this level, that's almost a given. You've got to define your skills and make yourself unique. There are millions of people out there looking for jobs, so if you can create this wonderful picture of what you do well and why you're valuable to an organization, you're going to stand out."

According to Finney, you can continually enhance your value to employers even if you're out of work. "Do project work as a freelancer. Or develop your skills and experience by volunteering for a nonprofit. If an employer sees that you care enough to donate time to something, it's going to give you that extra sheen–and a fresh story to tell the people you're interviewing with. It also builds up your confidence, and negates some of the negative self-talk that comes with being unemployed."

According to Petras, one of the best ways to handle the emotional toll of unemployment is also a key to finding a job. "You need to connect with people–especially over the phone or in person–on a daily basis. You need to let everybody know that you're looking for work. Start with childhood friends, college friends, people who go to your church–anyone who knows and trusts you. It's human nature that people will want to help.

"A lot of people are nervous about asking for help. They isolate themselves, because they're embarrassed that they haven't been able to find a job. But when you talk to people, you get energy and ideas. And even if they can't help you directly, it's amazing how somebody knows somebody who may be able to open a door for you." CF

10% of your job search should be conducted ONLINE
90% of it should be out there IN PERSON
• Go to networking events
• Check with your local Chamber of Commerce
• Join a professional organization or even a book club–just get yourself out there
Because at the end of the day, people hire who they KNOW and who they TRUST

Feature

Is College a Good Investment?

Despite costs, career education makes financial sense

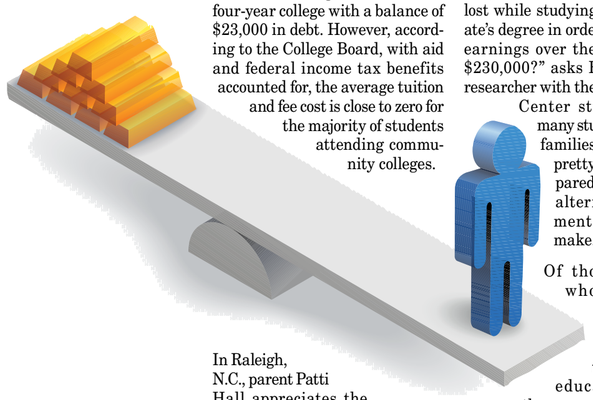
By Eleanor Yates

With soaring college costs, some wonder if higher education is worth the time and expense.

When the Pew Research Center surveyed Americans about their views on college, 5 percent said the higher education system provides excellent value, 35 percent said the higher education system provides good value, 42 percent said the value is fair, and 15 percent said the value is not good.

Avoid big tuition bills

Research found that a typical student with loans graduates from a four-year college with a balance of $23,000 in debt. However, according to the College Board, with aid and federal income tax benefits accounted for, the average tuition and fee cost is close to zero for the majority of students attending community colleges.



In Raleigh, N.C., parent Patti Hall appreciates the cost savings of Wake Technical Community College's university transfer program for her daughter Brittany. And Brittany likes the smaller classes with more individual attention. "She'll transfer to a four-year institution but after she graduates, she won't have much debt to pay back," Hall says. "I think that will be a great feeling."

The pay-off

The Pew Research Center analysis of U.S. Census data found that the average high school graduate with no additional education earns approximately $770,000 during a 40-year work life. Those with a two-year associate's degree earn approximately $1 million during that time frame, and a worker with a bachelor's degree earns approximately $1.4 million. The figures include the cost of time and money spent to obtain a college degree.

"So is it worth it to forego about $50,000, the estimated earnings lost while studying for an associate's degree in order to boost one's earnings over the long haul by $230,000?" asks Richard Fry, a researcher with the Pew Research Center study. "I think many students and their families think this is a pretty good use compared to other risky alternative investments they might make."

Of those surveyed who graduated from four-year colleges, 74 percent say their college education helped them grow intellectually; 69 percent said their education helped them mature, and 55 percent said their education was useful in preparing for a career.

Kim Parker, a researcher with the Pew Research Center, says she was surprised that only 55 percent of the responders thought that college was useful in preparing for a career. She says that response might stem from some graduates' sense of frustration with the tight job market. "They want to come out of college and get a job. Some feel they are coming up short."

$23,000 The typical student loan debt of a four-year college graduate.
Americans' views on college
5% EXCELLENT value
35% GOOD value
42% FAIR value
15% NOT GOOD value
Pew Research Center
$630,000 The increased lifetime income a college graduate will earn over a high school graduate

See "Is College Worth It?" at pewresearch.org pewresearch.org/pubs/1993/survey-is-college-degree-worth-cost-debt-college-presidents-higher-education-system CF

Dream of College Comes True for Factory Employee

Rafael Contreras is glad he opened the door to college. He graduated from Redwood City, California's Sequoia High School in 1992, the first in his family to finish. Driving by Stanford University daily on his way to his job selling shoes in a department store, he wished somehow and somewhere he could continue his education.

When his family moved to Illinois, Contreras went with them. He found work in a factory. When it closed, he worked for another. When the second factory closed in 2003, he was 33 and married with two young children.

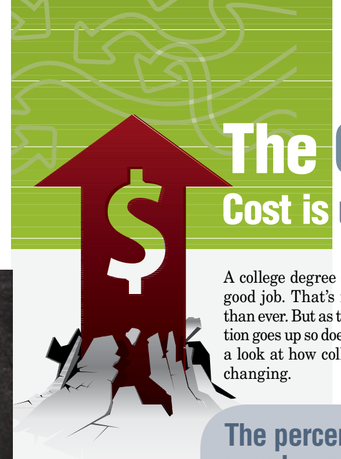
"I knew this was a good time to finally continue my education," he says. "I did not want to get laid off from another factory job that went overseas when I was older."

At Carl Sandburg College, Contreras received assistance through federal retraining funds, as well as grants and loans. He graduated from the Radiology Technology program in 2007. Today he works with CAT scans at Saint Mary's Medical Center.

"My job is to do the best possible imaging exam to aid the radiologist in diagnosing patients and helping them get better," he says. "I always knew I could do the work." CF

The College Balance Sheet

Cost is up but so is benefit



A college degree is the ticket to a good job. That's more true today than ever. But as the value of education goes up so does the cost. Here's a look at how college education is changing.

The real cost of college has jumped since the early 1980s, even after accounting for inflation.

(Figures adjusted to 2010 dollars)

Typical full-time tuition and fees at public four-year colleges and universities have increased 259 percent.

$2,119 in 1980-81
$7,605 in 2010-11

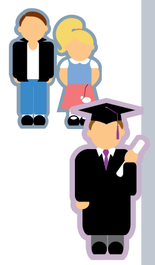
Average full-time tuition and fees at four-year private colleges increased 186 percent.

$9,535 in 1980-81
$27,293 in 2010-11

Average full-time tuition and fees at a two-year community college increased 163 percent.

$1,031 in 1980-81
$2,710 in 2010-11

The percentage of people age 25 to 29 who have at least some college has more than doubled since the early 1960s, yet many students still don't complete a bachelor's degree.

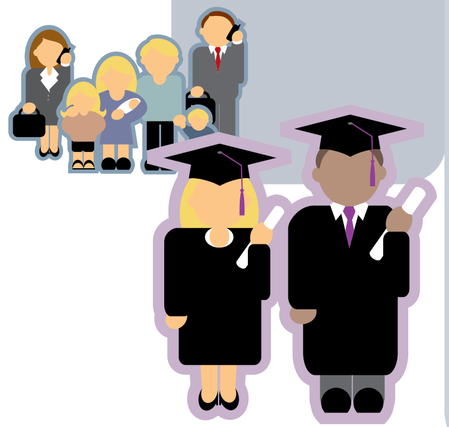


In the early 1960s

25% at least some college education
13% at least a bachelor's degree

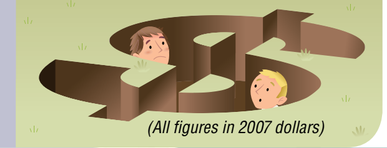
In 2010

60% at least some college education (at a two-year or four-year institution)
32% at least a bachelor's degree



As college costs increase so does the amount of student loan debt.

$8,700 the average student loan balance In 1989
$21,500 the average student loan balance in 2007



(All figures in 2007 dollars)

While paying for college is harder, those who complete a degree still consider it a good investment.

75% of the public says college is no longer affordable for most Americans.
74% agreed that in order to get ahead in life these days, it's necessary to get a college education.
86% of college graduates say that college has been a good investment for them personally.

Almost half of 18- to 34-year olds don't have a bachelor's degree and are not currently enrolled in school. Their reasons for not pursuing more education are often economic.

67% say they need to support their family.
57% say they would rather work and make money than go to school.
48% say they cannot afford to continue with school.
34% say they do not need more education to pursue their chosen career.
5% say they were not accepted to the schools they wanted to attend.

All information from the Pew Research Center, "Is College Worth It?" May 2011 CF

WCC Programs

More Education = More Opportunity

Today's good jobs require more than high school

By Laura L. Crawford

We've heard it before, the U.S. is falling behind in math and science education. While the debate goes on about the cause of the slide, good jobs, the kind that provide a living wage and benefits, go begging.

Even in today's economy, manufacturing jobs that can pay from $30,000 to $80,000 a year go unfilled because employers can't find workers with the basic skills. Meanwhile about 29 percent of high school students drop out and face lower wages and higher unemployment than those who at least complete high school. One-third of those students who do complete high school and enroll in college, will have to take remedial math and English classes before they can enroll in college-level classes.

A good basic foundation is more important than ever. That means solid reading and writing skills, and proficiency in math.

While not everyone wants–or needs–a full four years of college, a good basic foundation is more important than ever. That means solid reading and writing skills, and proficiency in math.

With a short period of training or a certificate program, high school graduates can expect to find jobs paying in the $20,000 to $30,000 range. Some of the jobs in these categories that are expected to have plenty of openings include a range of positions from customer service reps, to dental assistants, to pharmacy technicians and teacher assistants.

But even higher-paying jobs for workers with a high-school degree and some additional training are out there, and some of the best opportunities are in fields that require a solid grasp of math and science.

Some of these jobs include bookkeeping, carpentry, maintenance and repair work, licensed practical nursing and truck driving–all of which pay in the $30,000 to $50,000 range and are expected have plenty of openings according to the U.S. Bureau of Labor Statistics.

Good jobs go begging

Surprisingly, manufacturing is another sector where skilled workers are in demand.

Jeannine Kunz, director of professional development for the Society of Manufacturing Engineers, says that manufacturers aren't able to find the kinds of skilled workers they need, especially welders, machine operators, sheet metal fabricators and maintenance technicians.

"It's estimated that the U.S. will be three million skilled workers short in the next couple years," she adds. "And not enough people were victimized when they signed mortgages they didn't understand, for example.

"Most of my students aren't learning math for it's own sake," he says. "We talk about how better math skills qualify them for better jobs. Just for example, there is a huge bump in income for people who know algebra compared to those who don't." **CF**

See a video interview with Jason Davis.

More satisfaction

Percent of workers who say that they are "very satisfied" with their job

- 40% no high school degree
- 50% high school graduate
- 58% associate's degree or some college
- 58% bachelor's degree or higher

More money

Median annual income based on education

- $24,300 no high school degree
- $33,800 high school graduate
- $42,000 associate's degree
- $55,700 bachelor's degree

From CollegeBoard "Education Pays 2010"

FACULTY PROFILE

Jason Davis

Putting the ah-ha back into math

In August, Jason Davis was named an "Outstanding Young Educator" at the Michigan Jaycees Summer Assembly in Grand Rapids. While he was honored by the recognition, what means the most to him, he says, is being nominated by his colleagues at WCC.

Davis became a full-time math instructor at WCC in 2008 but his history at the College goes back much further. He began as a student in the late 1990s and struggled with math before he learned to love it in Mohammed Abella's algebra class. Eventually he transferred to Eastern Michigan University and completed a bachelor's and a master's degree in mathematics education.

Today he's back, inspiring students with his story and his dedication. He teaches Foundations of Numeracy, Foundations of Mathematics and Foundations of Algebra. As the names imply, all three courses build the skills students need to take college-level math courses.

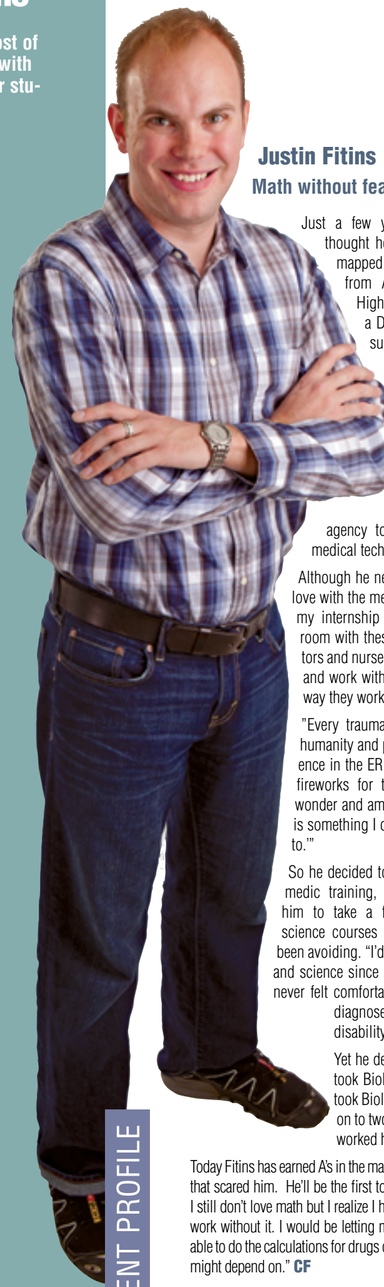
"When students ask me why they have to learn this stuff," he explains. "I ask them who benefits if they don't learn it. Without good math skills, many people

WCC offers a range of certificate programs to prepare students for entry-level jobs

Most of these certificates take only a few semesters to complete and can be combined with general education credits to become the foundation of an associate's degree for students who decide to continue their education.

	Credits	Median Salary*
Business		
Accounting	15 credits	$33,000
Administrative Assistant	16 credits	$30,000
Business and Sales Marketing	12 credits	varies widely
Computer Software Applications	16 credits	$27,000
Entrepreneurship	12 credits	varies widely
Human Resource Management	15 credits	$38,000
Medical Office Assistant	18 credits	$29,000
Retail and Business Operations	12 credits	$35,000
Culinary and Hospitality		
Baking and Pastry	32 credits	$40,000
Culinary Arts	33 credits	$40,000
Hospitality Management	30 credits	$47,000
Digital Media		
Digital Video Production	29 credits	$43,000
Music Production Engineering	20 credits	$46,000
Photographic Imaging	21 credits	$30,000
Education		
Child Development	11-13 credits	$19,000
Information Technology		
Computer Systems Technology	16-18 credits	$54,000
Health Care		
Dental Assisting	38-39 credits	$33,000
Nursing Assistant Skills Training	4 credits	$11.50/hr
Pharmacy Technology	31-32 credits	$28,000
Manufacturing Technology		
Fluid Power	24 credits	$57,000
Industrial Electronics Technology	16 credits	$51,000
Machine Tool Technology	25 credits	$38,000
Numerical Control Programming	26 credits	$46,000
Service Technology		
Auto Body Repair	30 credits	$38,000
Automotive Services Technician	36 credits	$35,000
HVACR	25 credits	$41,000
Motorcycle Service Technology	20 credits	$34,000
Residential Construction	15 credits	$44,000
Welding	21 credits	$35,000

**Median salary indicates the midrange for all workers in the field with varying levels of experience–starting salaries will be lower.*



STUDENT PROFILE

Justin Fitins

Math without fear

Just a few years ago, Justin Fitins thought he had his career path all mapped out. Since graduating from Ann Arbor's Community High in 2000, he'd worked as a DJ and a tour manager for summer music festivals like the Van's Warped Tour and managed restaurants in the winter off-season.

Then three years ago Fitins decided to take the three months of training with a private agency to become an emergency medical technician.

Although he never expected it, he fell in love with the medical profession. "During my internship I was in the emergency room with these amazing teams of doctors and nurses who took time to explain and work with me. "I was in awe of the way they worked," he says.

"Every trauma case was handled with humanity and precision. My first experience in the ER was like a toddler seeing fireworks for the first time; I just felt wonder and amazement. I thought, 'This is something I could really devote my life to.'"

So he decided to pursue the longer paramedic training, something that required him to take a foundation of math and science courses at WCC–something he'd been avoiding. "I'd been intimidated by math and science since I was young," he says. "I never felt comfortable there and I was even diagnosed with a math learning disability."

Yet he decided to press ahead. He took Biology 101 and did fine and took Biology 102 and loved it. Then on to two math classes in which he worked hard and did very well.

Today Fitins has earned A's in the math and science prerequisites that scared him. He'll be the first to tell you that it wasn't easy. I still don't love math but I realize I have to have it. I can't do my work without it. I would be letting my patients down if I wasn't able to do the calculations for drugs or procedures that their lives might depend on." **CF**

WCC Programs

More in the Middle

Some of today's most plentiful jobs require two-year degrees

By Laura L. Crawford

Somewhere between a high school degree and a bachelor's degree there is a middle range of college education that is too often overlooked. These are the so-called middle-skills jobs that pay off in challenging and interesting work that requires specialized skills, pay good wages and offers stable employment.

Nationally, about 45 percent of all job openings are middle-skill level, compared to one-third in highly skilled jobs and just 22 percent in occupations that require only a high school degree.

For students who want less than four years of college, middle skills jobs offer good pay and stable employment

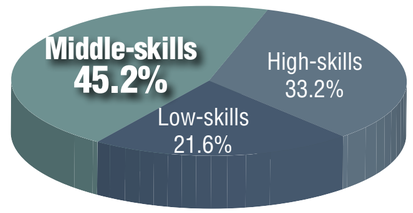
These jobs include many healthcare and technical occupations that typically pay from $30,000 to $50,000 and up, with most requiring an associate's degree.

The U.S. Bureau of Labor Statistics lists more than 20 occupations with above-average growth through 2018 in this category. Many of these are in healthcare professions that include registered nursing, dental hygiene, physical therapy assisting, occupational therapy assisting, radiation therapy and respiratory therapy.

Another large group includes technicians in medical and scientific fields including medical sonographers, medical equipment repairers, environmental engineering technicians, cardiovascular technicians and medical, occupational health, and social science technicians.

According to a report by the National Skills Coalition, millions of students will take some classes in college but drop out before they earn any kind of degree. For these students, a certificate or associate's degree in a middle-skills occupation might be a better choice offering more employment opportunities and better wages.

Middle-skills jobs are a big slice of the pie



From "The Future of Middle-Skill Jobs" 2009

Middle-skills jobs offer good pay

$49,810 Physical Therapist Assistant
$55,620 Police Officer
$55,730 Radiologic Technician
$37,370 Welder

From the U.S. Bureau of Labor Statistics

The demand is there

WCC instructor Allen Day, who heads up the Automotive Services department, can vouch for that. "It's amazing the number of jobs that are opening up. I've had calls from a dozen employers in the past couple of weeks," he says.

"Today auto technicians are expected to use electronic equipment all the time, and to be comfortable using specific equations in certain situations. They also need a basic grasp of electrical, mechanical, physical and chemical concepts," says Day.

"Local dealers, independent shops, large auto service chains are all looking for either entry-level licensed technicians or interns. These are jobs that typically pay from $12 to $25 per hour. There is also a growing market for more highly trained technicians at automotive manufacturers' testing facilities, with good pay and benefits," he adds. **CF**

FACULTY PROFILE

Lisa Rombes

Math you can use

"Don't be a math victim," Lisa Rombes tells students in her Everyday College Math class. In this class, math is not just an abstract exercise; it's a real world skill that they can use to make better decisions in the workplace and in their daily lives.

She says, "I don't really hear the question, 'When will I ever use this again?' in this class. Instead students tell me, 'I wish I had taken this sooner,' or 'I never liked math but this class really helped me.'"

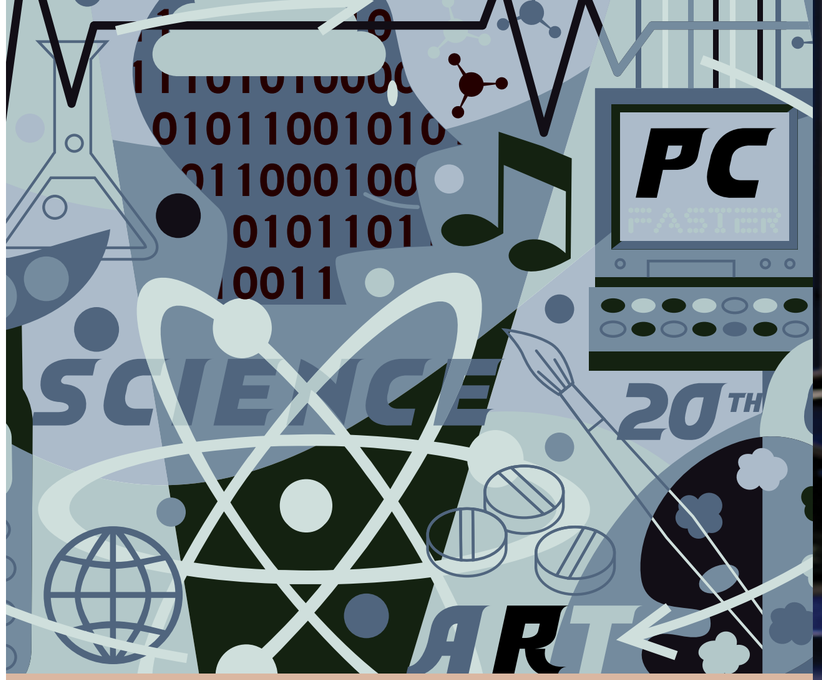
That's because Everyday College Math covers key mathematical skills like percentages, logic and statistics by grounding them in real life applications. For example, calculating interest rates on credit cards and mortgages, reading the graphs and charts that accompany news articles or health information, or learning the logical steps of analyzing and evaluating facts.

"I wouldn't call it an easy class, but students with good work habits will probably do well," she adds. "It's not as abstract as many math classes. Many of my students have avoided math but this class teaches them that they don't have to turn down an opportunity just because it requires a little math."

Rombes started out as a business major in college until one of her math professors took her aside and told her she had a talent that she should put to use. "I always was kind of a math dork," she says. "I looked forward to doing my math homework. I loved getting the answer at the end and I loved discovering that there was more than one way to do it right.

"That's one of the things I like best about teaching too," she says. "I might explain something one way and a student won't understand, but if I use a different example or come at it from a different direction, they say, 'Oh, now I get it.'" **CF**

See a video interview with Lisa Rombes



Four Semesters to an Associate's Degree

Your associate's–three ways

1. **If you decide to earn a certificate to enter the job market quickly, add only about 20 more credits and round out your education with an associate's degree. Nearly every certificate program at WCC offers this option.**

2. **Begin with an associate's degree as your main credential. For example, a WCC associate's degree will prepare you for health and technical careers right away.**
   - Criminal Justice – Law Enforcement
   - Registered Nursing
   - Physical Therapist Assistant
   - Radiography

3. **Start with an associate's degree to get you in the door, then transfer for a bachelor's degree for advancement. Examples at WCC include:**
   - Graphic Design
   - Internet Professional
   - Photographic Technology
   - 3-D Animation
   - Broadcast Arts
   - Journalism
   - Technical Writing
   - Construction Management
   - Computer Networking
   - Computer Programming
   - Computer Systems Security **CF**

STUDENT PROFILE

Neal Estep

The skills to succeed in a career he loves

From the time he was small, Neal Estep loved cars. "My dad was always working on one of his cars in the garage, and I started out by handing him tools and then gradually helping more."

Today at 22, he's working as an intern at the Toyota Technical Center in Livonia as part of a team that fabricates parts and assembles prototypes of upcoming models. "It's a pretty cool job," he says. "It's a different experience because I can work on cars all day and not get dirty, unlike all the other auto work I've done."

Estep never really considered any career other than cars. "Being able to wrench stuff out makes me happy," he says simply. "I play with my motorcycle at home and I work on my girlfriend's race car a lot," he says.

While not many guys have a girlfriend with a race car, Estep's is a graduate of WCC's Auto Body program and she's just started her own custom painting business.

At WCC, Estep took classes in both Auto Services and Auto Body and he plans to complete an associate's degree next year. "One of my favorite classes at WCC was Mobile Electronics because it was fun to learn how to add aftermarket sound systems or custom headlights, and my absolute favorite was Performance Automotive, because I learned how to improve power. In that class we turbo-charged a Mustang."

As for math, he's taken two of the foundation classes, Math 067 and 097, and still needs to complete intermediate algebra, Math 169. "I definitely use math when I'm working, especially to fabricate and fit parts, and now that I work for Toyota I've gotten pretty good at converting measurements from standard to metric." **CF**

Aim High

Advanced math and science skills translate into good pay and low unemployment

By Laura L. Crawford

Highly skilled workers–especially those in healthcare, finance, computer science and engineering–can expect a very friendly job market.

Even in today's tough economic times, the unemployment rate for workers with a bachelor's degree is only 5 percent and, even better, it's a mere 2 percent for workers with a doctoral degree. Sadly for workers with less than a high school degree, unemployment hovers just under 15 percent.

Of the top 25 highest paying jobs in the country, nearly every one requires a bachelor's degree or higher and at least 16 of them are strongly math and science based. Of these, nine are in medical fields ranging from dentistry to surgery; three are in engineering, three are computer-related, three are in natural sciences, five are law and business-related, and two are in the airline industry.

As education goes up so does the percentage of workers who say that they're "very satisfied" with their job.

But it's not just about money, according to the report "Education Pays 2010" produced by the College Board, as education goes up so does the percentage of workers who say that they're "very satisfied" with their job.

For jobs such as medicine or engineering, students can expect to study hard and pay their dues but that hard work will pay off in jobs that provide both satisfaction and financial security.

Education means JOBS

Unemployment rates

- 15% Less than a high school degree
- 10% High school degree
- 7% Associate's degree
- 5.4% Bachelor's degree
- 2.4% Professional degree

Of the five highest paying jobs in the country nearly every one requires at least a bachelor's degree and most are strongly math and science based.

1. Physicians and Surgeons
2. Chief Executives
3. Dentists
4. Engineering Managers
5. Podiatrists

From the U.S. Bureau of Statistics

Some advice

For students considering a medical career, here is a bit of advice from the Peterson's College Guide online:

• Most medical schools require a year of college-level biology, general chemistry, organic chemistry and physics as pre-med prerequisites. In addition to science classes, medical schools may also require calculus, composition and English classes.

• Developing a strong work ethic and a nose for research and study will prepare you very well for a career that will require lifelong learning on your part in order to stay on top of research and trends.

And for students considering engineering, Amanda Idema, director of academic advising for the Michigan State University College of Engineering, says that it's true that an interest in math and science is the most basic requirement for anyone considering engineering–but that doesn't mean that every engineer is a natural at math.

"If you have a passion for the field of engineering but have to push and persevere to learn the math, you're probably going to do fine," she says. "Once students start applying math in their engineering classes, and see the purpose behind it, often it clicks better.

"And sometimes students who are good at math aren't that talented at engineering. It's not always the case that if you like one you like the other.

"The best engineers are interested in being creative, problem solving, designing and helping people." **CF**

STUDENT PROFILE

Destiny Cebuhar

In love with creativity and problem solving

Although she's only 18, Destiny Cebuhar is already certain that she will find a way to make a career in math, even if she hasn't yet decided how.

"Math is a huge field. I can look everywhere and see math. But I'm not interested in just math; I want to work with people too." Still, she's fascinated with math's abstract side and she peppers our interview with references to things such as Brownian Motion (a mathematical method of describing stock market fluctuations) and the history of the number zero.

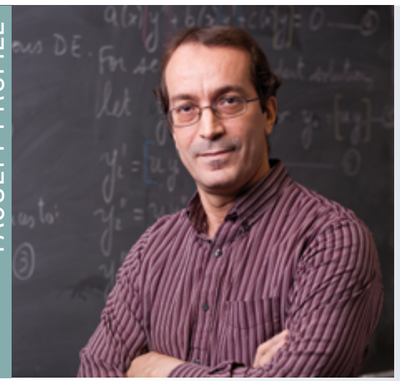
"A lot of people have trouble with math because they're overwhelmed. The thing about math is that it's hard. You can't just look at it and understand it. You really have to learn a whole new language. The more exposure to it, the more familiar it becomes," she says.

She admits that she doesn't always get it either, "I flunked trigonometry once," she says, "and I love trig.

"But what I love about math is that the answer is either right or it's wrong," she says. "If the answer is wrong, you did something wrong. Still there are so many ways to get to the right answer that you can be creative in the way you solve it.

"I never get bored with this. There's always more to learn." **CF**

FACULTY PROFILE



Mohammed Abella

Teaching math step by step

On the desk in Mohammed Abella's office is a dusty, well-used box of multi-colored chalk. In it may be the secret of his teaching success.

Abella teaches calculus and differential equations as well as introductory algebra and intermediate algebra. Many of his students are preparing to transfer to engineering, pre-med, or computer science programs.

One of the ways he makes complicated equations clear is by color-coding each step. That's where the colored chalk comes in. Abella uses red, blue, orange and yellow chalk as he works equations on the board to help students visually follow the sequence of the equation.

"I first saw this approach used effectively by a professor I had as an undergraduate," says Abella. "He was also someone who inspired me to teach because I saw that good organization and explanation could make a difficult class easy. Students like it because it highlights the most important steps."

Abella also believes that good teaching requires good examples. "I often ask students what they did that day. Did they calculate the price of something that was 50 percent off or calculate sales tax? They're using the tools of the class every day."

For advanced students, those examples might not be as commonplace, and the calculations are more complex, but the process is similar. "For example, one advanced class just worked out the calculations for landing a spacecraft on the moon without crashing. That involves distance, deceleration, time and speed."

Abella has been teaching at WCC since 1995 and before that at Miami Dade Community College where he taught both math and physics. "I didn't grow up liking math," he admits. "It was a challenge to me, and I felt like I had to master it, but once I got better at it, I really began to enjoy it." **CF**

See a video interview with Mohammed Abella

Choose Math and Science Transfer Studies

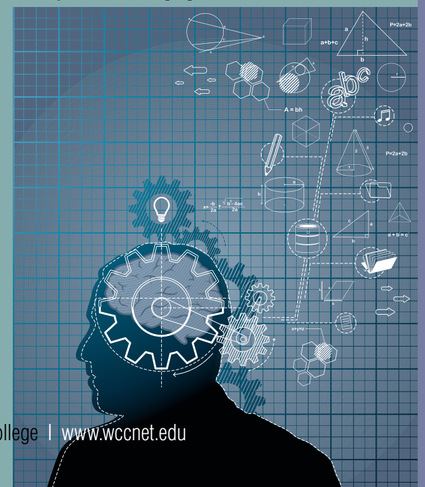
WCC's Transfer and University Parallel Associate's Degrees are designed to provide the first two years of study for students who plan to earn a bachelor's degree and beyond. Although WCC's Associate in Art and Associate in Science degrees can also provide a pathway to transfer studies, Transfer and University Parallel studies are more closely coordinated with the requirements of four-year colleges and universities.

Students who know that medicine or engineering is their goal, should choose the Transfer and University Parallel Associate of Math and Science which prepares them for studies in math, computer science, engineering, physics, chemistry, biology and pre-medicine.

WCC also offers a General Studies in Math and Natural Sciences University Parallel program, which is a good choice for students who are undecided about a major but want to prepare for studies in math and natural sciences.

Other WCC University and Transfer Parallel programs include:

- Exercise Science
- Environmental Science
- Internet Professional
- Computer Science
- Information Systems
- Business
- Early Childhood Education
- Elementary Education
- Secondary Education
- Criminal Justice
- Human Services
- Liberal Arts Transfer



The Power of Polite

Good manners can be career magic

By Anita LeBlanc

Would you park your gum under your plate or chew with your mouth open at a lunch with your employer?

Pamela Eyring, president and director of The Protocol School of Washington, the nation's only accredited protocol and business etiquette school, and Barbara Pachter, author of "New Rules @ Work: 79 Etiquette Tips, Tools and Techniques to Get Ahead and Stay Ahead" recall the stories they've heard from business owners who lost millions of dollars due to employee breaches of etiquette such as these.

According to research by Harvard University, the Carnegie Foundation and Stanford Research Institute, technical skills and knowledge account for just 15 percent of the reasons that people get, keep and advance in a job, while 85 percent of their success is connected to their people skills–the ability to follow the basic rules of conduct that set the tone for a pleasant, productive workplace. "Managers will often go to bat to keep employees who get along well with others over more technically astute ones," notes Eyring.

"The details may change with the times, but the focus remains the same: consistently treating others with genuine courtesy and respect," Pachter says.

Dress for respect

A professional image begins with appropriate grooming and classic, yet fashionable, proper fitting clothing that meets the standards for the workplace, says Eyring. She cautions women to skip cleavage-revealing tops, short skirts and spike heels. And unless you are working in a tattoo parlor, cover up your ink.

The magic words

Pachter says that each day it's important to arrive early or on time, and to greet each person crossing your path. "People judge the effectiveness of their managers based on if they say hello to their employees."

She recommends a warm smile and interested expression as you greet others. She adds, "It's easy to forget the importance of saying 'please' and 'thank you' at work. An administrator told me that she placed precedence for completing the work of managers who used the magic words."

Phone etiquette

The tone and manner in which you answer your phone speaks volumes about you professionally. Eyring suggests smiling before answering calls as it encourages a pleasant tone of voice, and then identifying yourself.

And speaking of phones, keep personal calls and texts to a minimum. And, pay attention to the person in front of you–not on your phone. "It's distracting and disrespectful to surf or text during a meeting, or in the company of others," says Pachter.

Netiquette

"If you wouldn't share it in a break room or socially with colleagues, then don't share it online," Eyring says about social media and email postings. She counts the forwarding of inappropriate jokes, cartoons and chain letters; poor grammar, spelling and abbreviations; and typing in all caps (also known as cyber shouting) among blunders.

She firmly warns that using email to resolve conflict can be deadly. "What goes online, stays online," she admonishes. "It's more effective to talk things over with someone, rather than resort to an email with content that can easily be misconstrued without visual cues."

To GET, KEEP and ADVANCE in a job you need…

15% TECHNICAL SKILLS and KNOWLEDGE

85% PEOPLE SKILLS the ability to follow the basic rules of conduct that set the tone for a pleasant, productive workplace.

"Can you help me, please?"

Jennifer Drueen, HR director for the U.S. Chamber of Commerce, sympathizes with those uncertain of how to navigate codes of business conduct. While you can find good advice in books, online and in classes, the best way to learn is to choose a role model and carefully emulate the way they behave. "It is important to carefully observe others in your organization and adjust your appearance and behavior accordingly."

And remember that just as you are watching others, they are watching you–and helping determine your career path. CF

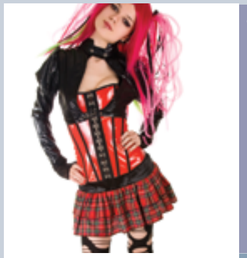
See a video interview with etiquette expert Josephine Nicholas

Careless or Considerate?

Test your business etiquette know-how

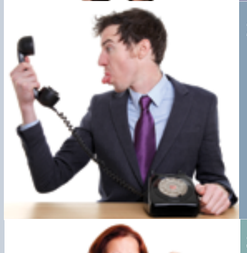
By Anita LeBlanc

How well do you understand basic business etiquette? Take this quiz to find out.



1. When you dress for work, you choose to wear:

- ☐ A. Fashionable, tight clothing that makes you stand out from the crowd. Your motto is "When you got it, flaunt it."
- ☐ B. Proper fitting, classic clothing that fits within the accepted standards for your organization. The way you dress complements your professional work while conveying respect for others in your work environment.



2. You answer your phone at work by:

- ☐ A. Taking the time to pause and smile before greeting your caller, identifying yourself, and then asking how you can be of help.
- ☐ B. Saying hello in a gruff tone that makes it clear that you're an important person with limited time. Whoever is calling no doubt knows who you are.

3. At the end of your 8-5 workday:

- ☐ A. You routinely clear your desk and close your computer at 4:55, and leave promptly at 5:00. You get paid for eight hours, and you're not giving the company one minute more.
- ☐ B. You ask your boss and colleagues if there is anything else they need from you before you leave, promptly follow up on any urgent requests, and then say goodbye.

4. You ask the administrative assistant in your office to review the proposal you've created for a meeting the next day. You learn the next morning that the assistant worked until after midnight to make corrections and copy and collate the document for your presentation before leaving it on your desk. You respond by:

- ☐ A. Walking past your assistant without a glance, and go to your meeting with your proposal in hand. It's an assistant's job to do whatever it takes to make you, and the company, look good. There's no need to say thank you for their extra effort.
- ☐ B. Promptly seeking out and enthusiastically thanking your assistant and letting them know how much their extra effort means to you.

Answer Key

Give yourself one point for each correct answer.

1-B

If you consider yourself a professional and want to be treated as such, it's important to follow the generally accepted standards for your particular organization.

Eyring and Pachter emphatically assert that since we are consistently creating and affirming our professional image, it's important to forego inappropriate, distracting attire and dress. Because the difference between proper and improper dress may be subtle, they recommend carefully observing and emulating the style of the colleagues you admire and respect.

2-A

"Pausing to catch your breath and smile before answering the phone gives you the opportunity to focus, and speak in a pleasant, professional tone of voice," says Eyring. "Properly identifying yourself can help your caller determine if they have reached the right person. Your willingness to help them solidly supports your professional standing."

3-B

Pachter says that taking the time to let others know that you are leaving, asking if you can do anything else for them, and wishing them a good evening shows your respect, and lends itself to enhancing your reputation as a thoughtful, considerate team player.

4-B

A culture of appreciation makes employees feel valued and willing to go the extra mile. "We say much about ourselves when we take the time for thank others for their efforts," says Eyring, "especially those in support positions."

Scoring

4-3 points: You understand the basics so well that others at your workplace rely on your expertise to help them with their etiquette.

2-1 points: You've got some ideas about how to conduct yourself properly at work, but would do well to study business etiquette, invest in a class or look for a mentor.

0 point: Your self-centered behavior is setting you up for career suicide. Begin adjusting your attitude and conduct immediately. CF

How to Survive a Bad Boss

Keep your job and your sanity even if your boss is a doozy

A bad boss can turn an otherwise good job into a miserable experience. But that doesn't mean you're helpless. From general strategies to specific tips for dealing with different managerial personalities, you have tools at your disposal.

By Margaret Steen

For example, some bosses fall neatly into one of the following categories:

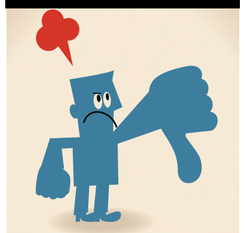
THE MICROMANAGER

"They ask you to do a job, but then you have to run it by them before you actually do it," said Kathi Elster, president of K Squared Enterprises and coauthor of "Working for You Isn't Working for Me."

One way to work with a micromanager is to have a conversation about what will help you do your job better–making it clear that you both have the same goals.

"Tell the boss, 'I want to perform well,'" says Scott Berkun, a management consultant and author of "Making Things Happen." Then explain that having to give constant status updates is actually making your performance worse.

THE CRITIC



Some people "really see every mistake," Elster says. "This is a very tough one to live with, but you have to say back to them, 'Thank you, I'm going to make that change. Now how about a congratulations for what I did right?'"

THE SPINELESS BOSS

This is the person who "will never go to bat for you," Elster says. Someone who doesn't stand up for his or her employees probably doesn't have much power in the organization. So find another manager who does, and try to get input and help from that person.

THE YOUNGER FORMER COLLEAGUE

It can be awkward when a colleague is promoted to be your boss, or you are assigned to work for someone much less experienced than you are–or both.

"You each have something to learn from one another," Elster says, but remember that the dynamic in your relationship has changed. "It's a new beginning: They have power over you now; they can fire you."

Leaving a job to avoid a conflict with the boss is an extreme step. Try to keep in mind that it's a temporary situation, that you're not trapped in that job with that boss forever.

Not every problem boss fits one of these profiles. You can also use more general strategies to improve the situation.

For example, if you find yourself having repeated conflicts with your boss, try to analyze why. "Sometimes it can be patterns that are being repeated from families or other relationships, and there's something about this boss that's triggering that," says Mia Ocean, a counselor at Broward College in Fort Lauderdale, Fla.

Remember, too, that communication is key to improving any situation. As tempting as it may be to go directly to your boss' boss, this is not a good strategy.

"The last thing you want to do is jump over the person's head," says Victor M. Ramos, a student development advisor at Daytona State College in Daytona Beach, Fla. "If speaking to the boss doesn't work, then that's when you go to the next level."

In some extreme cases, you may need to leave a job if conflict with the boss threatens your health or workplace rights.

"Try to keep in mind that it's a temporary situation, that you're not trapped in that job with that boss forever," Ocean says. And remember that your current job is a stepping stone toward your larger goals. If possible, you should stick it out and try to make things work with your boss.

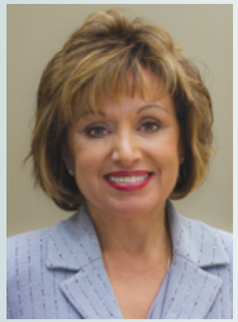
Finally, although it may be too late for your current job, make sure to consider the boss when looking at future positions. Salary, title and the commute are important, but they may not make up for a miserable experience with your boss.

"A mistake that many people make is that they focus too heavily on the job and not heavily enough on who their boss is going to be," Berkun says. CF

WCC welcomes new president

In August WCC welcomed Dr. Rose B. Bellanca as Washtenaw's fourth president and the first woman to hold the position.

Dr. Bellanca follows Dr. Larry L. Whitworth who retired this year after leading the college since 1998. Bellanca comes to WCC from Northwood University where she was the West Palm Beach Florida campus provost and chief operating officer since 2008. Prior to that the Michigan native served as president of St. Clair County Community College and as provost and chief academic officer of Macomb Community College, where she also worked as vice president for planning and development.



Bellanca began her college education at Macomb Community College and earned bachelor's, master's and doctoral degrees at Wayne State University. Early in her career she taught vocational studies at high schools in Clinton Township and Warren. In Grosse Pointe she was both a teacher and vocational co-op coordinator, and at Chippewa Valley Schools she served as a teacher, director of vocational education, and high school administrator.

As she begins her tenure, Bellanca plans to spend time getting to know the WCC community. "I'm not coming in with any preconceived notions other than the positive impressions I already have about the College," she says. "I'm excited. It feels good because I know I'm following three really good presidents. I know that the College is healthy and cares about students." CF

JLH

Photography student wins international award

WCC photography student Toko Shiiki has won first place in the 2011 International Photography Awards. Shiiki won in the People: Other Portrait—Non-Pro category.

Shiiki's winning submission is a series of images that tell the story of a man who has lost his identity somewhere between birth and death. Shot in stark black and white with a slight sepia tone, the photographs visualize a man with an obstructed face in various indoor and outdoor venues.

"I wondered about where and when he started thinking he had chosen the wrong path and lost the idea of who he is," said Shiiki in her artist's statement. "I imagined that he would find his face and somehow begin to move forward again."

The inspiration for her photographs came from dreams and life experiences, according to Shiiki. She was born in Japan and lived in the frenetically-paced environment of Tokyo most of her life before moving to Michigan in 2005. It was while she was in Tokyo that she first learned of WCC's photography program.

"It was truly by chance for me to hear in Tokyo that the WCC photo program is really amazing," says Shiiki. "I really hope that people from other countries will always be allowed to come to WCC to learn and earn any degree offered here, especially this photo program because it has been so great and important for me."

The annual IPA competition, in cooperation with the Lucie Foundation, is for professional, non-professional and student photographers from around the world. The 2011 competition featured more than 8,000 submissions from photographers in 90 countries. CF

JLH

Residential Construction in new campus home

For the last few years, the faculty and students in the Construction Technology program have been in an annex building off campus and volunteering in the community.

Now they have a new building on main campus to call home. What used to be the Skilled Trades Annex for UA Local 190 is now the Henry S. Landau Skilled Trades Building.

The 7,000 square-foot building is equipped with three classrooms, a caged woodworking area, a tool crib and a state-of-the-art finishing booth, offering students the latest in construction technology. As part of the commitment to sustainability, the college is applying for a LEED (Leadership in Energy and Environmental Design) certification through the U.S. Green Building Council for the Landau Skilled Trades Building, incorporating such sustainable aspects as occupancy sensor lighting, low-flow toilets, an Energy 5 star heating and cooling system and a roof that reflects heat.

The Construction Technology program offers certificates and degrees in:

- Residential Construction
- Construction Management
- Commercial Property Maintenance
- Cabinetry and Millwork
- Green Building

Construction Technology students get hands-on experience in all classes. "There are so many reasons why it is great to have the Construction Technology students back here on campus. It is definitely a cost savings for the College but more importantly it allows these students to rejoin the rest of the Vocational Technology family and makes it more convenient for our associate degree seeking students to complete their program of study," says Ross Gordon, interim dean of Vocational Technologies. CF

ES

Take the Next Step

Do you want to find out more about WCC programs and classes? Are you ready to apply for admission? Get started now and you could be learning a new skill in a WCC classroom next semester. Just follow these links to important information on the WCC website.

1 Learn More About WCC Programs

WCC offers more than a hundred certificate, associate degree and transfer programs. Look over the online listing and begin exploring programs that meet your interests and goals.

www.wccnet.edu/academicinfo/creditofferings/programs

2 Apply for Admission

WCC's application for admission is free and it can be completed online. Whether you plan to earn a certificate or an associate degree, transfer to a university or take a few courses, WCC has classes and programs that provide the skills you need. Once you apply, you'll be mailed information you need to complete the admission process.

www.wccnet.edu/studentservices/studentconnection/admissions

3 Search the Class Schedule

Find out which classes will be offered in the upcoming semester.

www.wccnet.edu/schedule

4 Apply for Federal Financial Aid

Need help paying for your education? Learn more about federal financial aid, scholarships and low-interest federal student loans.

www.wccnet.edu/financialaid

5 Find Out About Orientation

If you're new to WCC, online orientation is a required first step before you can register for classes. New college students may also be required to attend an on-campus orientation and to take the COMPASS placement test. Find out more about the process here.

www.wccnet.edu/orientation

6 Connect With WCC Counseling and Advising

WCC counselors can help you set goals, decide on a course of study and select the right classes. Whether you plan to transfer to a four-year university or earn a WCC degree, a visit to the Counseling and Advising office provides you with an opportunity to ask questions, explore your options and decide on the best course of study for your goals.

www.wccnet.edu/advising

7 Register for Classes

Once you're ready to go, follow these instructions to register online.

www.wccnet.edu/studentservices/studentconnection/registration

Important Dates to Remember

November 9	**Winter registration begins for current and readmitted students**
November 16	**Winter registration begins for new students**
December 1	**Suggested application deadline for start-of-semester classes**
January 5	**Last day to register for start-of-semester classes**
January 9	**Winter semester begins**

WCC: Your Community College

You'll find more than 150 certificate and degree programs in the 14 schools of study at WCC. Choose the schools that match your interests and select from the related programs.

Explore the WCC schools listings below for a career that fits your goals.

Want to learn more?
Link to WCC videos to see what WCC schools and programs have to offer.
www.wccnet.edu/flashvideos

School of Advanced Manufacturing Systems

Whether your interest is in manufacturing or automation, the programs in the School of Advanced Manufacturing Systems will fit your needs. Maintain and troubleshoot the machines that make commercial goods by specializing in one or more aspects of the machining industry. Develop entry level or advanced skills in electronics, automation, hydraulics or numerical controls. Advanced specialization is also available in some of these areas.

Automation
- Fluid Power Certificate
- Automation Technology Associate in Applied Science

Electronics
- Industrial Electronics Technology Certificate
- Industrial Electronics Technology II Advanced Certificate

Machine Tool
- Machine Tool Technology Certificate

Manufacturing
- Numerical Control Programming Certificate

Related Options

Welding–See School of Construction Technology

Computer Systems Technology Certificate–See School of Information Technology

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
Computer numerically controlled machine tool programmers, metal and plastic–$48,400
Machinists–$39,780

School of Apprenticeship and Occupational Studies

Find a trade-related associate degree program that builds on your unique set of skills while giving you the knowledge and skills needed to move into organizational leadership.

Apprenticeship Studies
- Apprentice Completion Certificate
- Journeyman Industrial Associate in Applied Science
- Occupational Studies Associate in Applied Science

Articulated Union Building Trade Programs (including U.A.)
- Construction Supervision Certificate
- Construction Supervision Associate in Applied Science
- Construction Supervision Associate in Science

United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of the United States and Canada
- Industrial Training Associate in Applied Science
- Sustainable Technologies in HVACR Associate in Applied Science
- Industrial Training Associate in Science

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
Plumbers, pipefitters, and steamfitters–$50,360

School of Automotive and Motorcycle Technology

If you are looking for the best technical training in the automotive or motorcycle fields, WCC's School of Automotive and Motorcycle Technology is the place for you. Whether your focus is finding employment as a technician, learning about performance or creating a custom look, our introductory and advanced certificate programs as well as associate's degrees will enhance your personal and professional qualifications. These programs offer the perfect blend of classroom and hands-on education not available in any other educational setting.

Auto Body Repair
- Auto Body Repair Certificate
- Collision Repair Refinish Technician Advanced Certificate
- Collision Repair Technician Advanced Certificate

Automotive Services
- Automotive Services Technician Certificate

Custom Cars & Concepts
- Custom Auto Body Technician Advanced Certificate
- Custom Fabrication & Chassis Design Advanced Certificate

Motorcycle Service Technician
- Motorcycle Service Technology I Certificate
- Motorcycle Service Technology II Advanced Certificate

Related Options

Welding–See School of Construction Technology

Occupational Studies–See School of Apprenticeship and Occupational Studies

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
Automotive body and related repairers–$41,270
Automotive service technicians and mechanics–$38,200
First-line supervisors of mechanics, installers, and repairers–$61,350
Motorcycle mechanics–$33,950

Salaries are national medians based on the U.S. Bureau of Labor Statistics Occupational Employment Statistics, May 2010.

School of Business and Entrepreneurial Studies

Learn the fundamentals you will need to become a business leader or entrepreneur. These programs help you develop entry-level skills in various aspects of business. Whether your goal is to make your place in an existing industry or branch out on your own, these programs can provide the foundation for success.

Entrepreneurship
- Entrepreneurship Certificate

Business
- Business Sales and Marketing Certificate
- Human Resource Management Certificate
- Retail and Business Operations Certificate
- Management Supervision Advanced Certificate
- Management Supervision Associate in Applied Science
- Retail Management Associate in Applied Science

Accounting
- Accounting Certificate
- Accounting Associate in Applied Science

Business Office Systems
- Administrative Assistant I Certificate
- Computer Software Applications Certificate
- Medical Office Assistant Certificate
- Administrative Assistant II Advanced Certificate
- Administrative Assistant Technology Associate in Applied Science

Related Options
Business Associate in Art–See Transfer and University Parallel Programs

Occupational Studies–See School of Apprenticeship and Occupational Studies

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
- Sales representatives–$60,430 to $84,360
- Human resources assistants–$37,900
- First-line supervisors of retail sales workers–$39,890
- First-line supervisors of non-retail sales workers–$81,120
- First-line supervisors of office and administrative support workers– $50,770
- Accountants and auditors–$68,960
- Bookkeeping, accounting, and auditing clerks–$35,340
- Executive secretaries and executive administrative assistants–$45,860
- Medical secretaries–$31,820
- Secretaries and administrative assistants–$32,000

School of Child Care Professionals

Whether you are looking to care for children in a home-based center or a professional or school-based setting, these programs can prepare you for an entry-level position as a childcare professional.

- Child Development Certificate
- Child Care and Education Advanced Certificate
- Child Care Professional Associate in Applied Science

Related Options
Early Childhood Education Associate in Art–See Transfer and University Parallel Programs

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
- Preschool teachers–$29,200

School of Construction Technology

Become part of the growing global community of skilled trades' professionals or skilled trades' managers. Design, plan, construct and complete structures for your home or for your career. You can earn a certificate or degree in Residential Construction, Construction Management or Heating, Ventilation and Air Conditioning. These programs offer the perfect blend of classroom education and hands-on training.

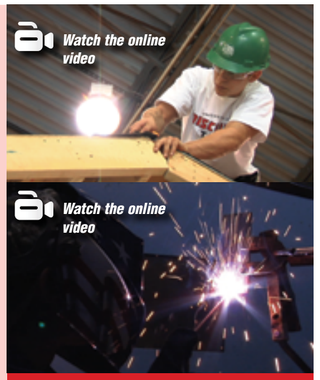
Construction Management
- Commercial Property Maintenance Technology Advanced Certificate
- Construction Management Associate in Art

HVACR
- Heating, Ventilation, Air Conditioning and Refrigeration Residential Certificate
- Heating, Ventilation, Air Conditioning and Refrigeration Commercial Advanced Certificate
- Heating, Ventilation, Air Conditioning and Refrigeration Industrial Advanced Certificate
- Heating, Ventilation, Air Conditioning and Refrigeration Associate in Applied Science

Residential Construction
- Residential Construction I Certificate
- Cabinetmaking/Millwork Systems Technology Advanced Certificate
- Residential Construction II Advanced Certificate
- Residential Construction Associate in Science

Welding and Fabrication
- Welding Certificate
- Welding Mechanics Advanced Certificate
- Welding Associate in Applied Science

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.



Salaries
- Carpenters–$43,890
- First-line supervisors of construction trades and extraction workers–$62,260
- Heating, air conditioning and refrigeration mechanics and installers–$44,860
- Welders, cutters, solderers and brazers–$37,370

Salaries are national medians based on the U.S. Bureau of Labor Statistics Occupational Employment Statistics, May 2010.

School of Criminal Justice and Law Enforcement

Develop the skills and knowledge necessary for work in law enforcement and criminal justice. Completion of the Police Academy Certificate prepares you to take the exam necessary for a career as a police officer.

- Police Academy Certificate
- Criminal Justice/Law Enforcement Associate in Applied Science

Related Options
Criminal Justice Associate in Art–See Transfer and University Parallel Programs

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
- Detectives and criminal investigators–$73,010
- Police and sheriff's patrol officers–$55,620

School of Culinary Arts and Hospitality Management

Find your passion in food, friends and elegant surroundings. Develop skills for an entry-level position in restaurant, hospitality or institutional settings. Whether your interests lie in pastry and wedding cakes, food preparation and marketing or management of food service, these are the programs for you.

- Baking and Pastry Certificate
- Culinary Arts Certificate
- Hospitality Management Certificate
- Culinary and Hospitality Management Associate in Applied Science

Related Options
Management Supervision Advanced Certificate–See School of Business and Entrepreneurial Studies

Management Supervision Associate in Applied Science–See School of Business and Entrepreneurial Studies

Occupational Studies–See School of Apprenticeship and Occupational Studies

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
- Bakers–$25,350
- Chefs and head cooks–$44,780
- Food service managers–$52,220
- Lodging managers–$54,570

School of Digital Media Arts

Creativity abounds in the School of Digital Media Arts which encompasses the disciplines of animation, graphic design, Internet professional, photography and video. These programs introduce students to foundational skills and prepare them for creative jobs in these disciplines.

3-D Animation
- 3-D Animation Certificate
- 3-D Animation Associate in Applied Science

Digital Video
- Digital Video Production Certificate
- Digital Video Production Associate in Arts

Graphic Design
- Graphic Design Certificate
- Graphic Design Associate in Applied Science

Internet Professional
- Web Technology Certificate
- Web Application Development Advanced Certificate
- Web Graphic Design Advanced Certificate
- Web User Experience Advanced Certificate

Photography
- Photographic Imaging Certificate
- Photographic Technology Associate in Applied Science

Related Options
Internet Professional AA Degree–See Transfer and University Parallel Programs

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries
- Art directors–$94,100
- Camera operators, television, video and motion picture–$48,450
- Film and video editors–$61,890
- Graphic designers–$48,140
- Multimedia artists and animators–$63,440
- Photographers–$35,980
- Web developers (included within the category of information security analysts, web developers and computer network architects)–$79,370

Washtenaw Community College ADA/EEO/Title IX/Section 504 Compliance Statements

Washtenaw Community College does not discriminate on the basis of race, sex, color, religion, national origin, age, disability, height, weight, marital status or veteran status in provision of its educational programs and services or in employment opportunities and benefits. WCC is committed to compliance in all of its activities and services with the requirements of Title IX of the Educational Amendments of 1972, Public Act 453, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964 as amended, Public Act 220, and the Americans with Disabilities Act of 1990.

Inquiries concerning programs and services under Title IX and Section 504, and the Americans with Disabilities Act should be directed to the Office of the Associate Vice President of Student Services, Room SC 275A, Student Center Building, 734-973-3536. Inquiries regarding compliance in employment should be directed to the College Affirmative Action Officer in the Office of Human Resource Management, Room 120, Business Education Building, 734-973-3497. Inquiries concerning access to facilities should be directed to the Director of Plant Operations, Plant Operations Building, 734-677-5300.

Title II Student Right to Know and Campus Security Act Compliance Statement

The Student Right to Know and Campus Security Act of 1990 is a federal law that mandates the disclosure by all institutions of higher education of the rates of graduation, the number of incidents of certain criminal offenses, and the default rate for student loans. The law also mandates that information be provided on the type of security provided on campus, the pertinent policies regarding security on campus, and policies that record and deal with alcohol and drug abuse. Washtenaw Community College is in full compliance with these provisions and provides the required information annually through college publications. Inquiries concerning the Student Right to Know and Campus Security Act should be directed to Washtenaw Community College, Office of the Associate Vice President of Student Services, Room SC 275A, Student Center Building, Ann Arbor, MI 48105 (telephone 734-973-3536).

WCC is a smoke-free campus.

Washtenaw Community College is accredited by

The Higher Learning Commission of the North Central Association
230 South LaSalle Street, Suite 7-500
Chicago, Illinois 60604-1413
312.263.0456
www.ncahlc.org
For information on Washtenaw Community College, visit www.wccnet.edu, or call 734-973-3300

Salaries are national medians based on the U.S. Bureau of Labor Statistics Occupational Employment Statistics, May 2010.

School of Information Technology

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

Networking

- Computer Systems Technology Certificate
- Computer Networking Academy I Advanced Certificate
- Computer Networking Operating Systems I Advanced Certificate
- Computer Networking Associate in Applied Science

Programming

- Foundations of Information Systems Certificate
- C++ Programming Advanced Certificate
- Programming in Java Advanced Certificate
- Web Database Programmer Advanced Certificate
- Computer Science: Programming in Java Associate in Science
- Information Systems: Programming in C++ Associate in Science

Computer Security and Data Analysis

- Foundations of Computer Security Certificate
- Network Security Advanced Certificate
- Computer Systems Security Associate in Applied Science

Systems Development and Administration

- Linux/Unix Systems I Certificate

Related Options

Computer Science Transfer AS Degree, Information Systems Transfer AS Degree, Mathematics and Computer Science AS Degree–See Transfer and University Parallel Programs

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Watch the online videos

Salaries

Computer programmers–$74,900
Database administrators–$75,730
Network and computer systems administrators–$72,200
Software developers, applications–$90,410
Software developers, systems software–$97,960

School of Music and Performing Arts

Students learn basic creative and performance skills in music, drama and dance and how they are applied in a professional setting. Whether you are exploring your own talents, coordinating the talents of others, or practicing the techniques you will need to make a living at your craft, the School of Music and Performing Arts provides the fundamentals you need.

Music and Performing Arts

- Music Production/Engineering Certificate

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Watch the online video

Salaries

Actors–$17.44/hr
Dancers–$13.16/hr
Musicians and singers–$22.39/hr
Sound engineering technician–$54,030

What is the National Median Salary?

CareerFocus uses salary information from the U.S. Bureau of Labor Statistics unless noted otherwise. These figures represent the national midpoint earnings for each job description. This means that half the U.S. employees surveyed in a particular occupation earn less than this figure and half earn more.

Individual salaries vary based on the region, the size of the employer and the employee's education, experience and skill level. You can research your potential salary by searching careers in the Occupational Outlook Handbook on the U.S. Bureau of Labor Statistics website (*www.bls.gov*) at or by checking with professional organizations and local employers.

Salaries are national medians based on the U.S. Bureau of Labor Statistics Occupational Employment Statistics, May 2010.

School of Nursing and Health Sciences

Find your place in the growing field of health care. The School of Nursing and Health Sciences provides a variety of programs designed to prepare the student for entry-level positions in dental assisting, pharmacy technology, physical therapist assistant, radiography, nursing assistant or professional nursing. The health care foundations certificate provides a starting point for prospective nursing and health science students or provides the general education courses to move from completion of a certificate program into an associate degree program.

Dental Assisting

- Dental Assisting Certificate

Health Care Foundations

- Health Care Foundations Certificate

Nursing

- Nursing Assistant Skills Training Certificate of Completion
- Nursing Transfer EMU School of Nursing Associate in Applied Science
- Registered Nursing Associate in Applied Science

Pharmacy Technology

- Pharmacy Technology Certificate

Physical Therapist Assistant

- Physical Therapist Assistant Associate in Applied Science

Radiography

- Radiography Associate in Applied Science

Related Options

Management Supervision Advanced Certificate–See School of Business and Entrepreneurial Studies

Management Supervision Associate in Applied Science– See School of Business and Entrepreneurial Studies

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Watch the online video

Salaries

Dental assistants–$34,140
Home health aides–$21,760
Pharmacy technicians–$29,330
Physical therapist assistants–$49,810
Radiologic technicians–$55,730
Registered nurses–$67,720

School of Professional Communication

We live in an age of communication. The School of Professional Communication is here to serve those who want to develop skills in radio broadcasting, technical communications or print and online journalism.

- Technical Communication Certificate
- Broadcast Arts Associate in Arts
- Journalism Associate in Arts Degree
- Technical Communication Associate in Arts Degree

Planning to transfer? Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries

Radio and television announcers–$39,910
Editors–$59,340
Reporters and correspondents–$43,780
Technical writers–$66,240
Writers and authors–$65,960

Transfer and University Parallel Programs

If your goal is to continue your education toward a baccalaureate degree, then the Transfer and University Parallel program is the track for you. Complete the first two years of study in a supportive environment with small classes and personal attention.

Business

- Business Associate in Art

Computer Science

- Information Systems: Programming in C++ Associate in Science
- Computer Science: Programming in Java Associate in Science
- Math and Science Associate in Science

Criminal Justice

- Criminal Justice Associate in Arts

Education

- Early Childhood Education Associate in Arts
- Elementary Education Associate in Arts
- Secondary Education Associate in Arts

Exercise Science

- Exercise Science Associate in Science

Internet Professional

- Internet Professional Associate in Arts

Liberal Arts Transfer

- Liberal Arts Transfer Associate in Arts

Math and Science

- Environmental Science Associate in Science
- General Studies in Math and Natural Science Associate in Science
- Math and Science-Math Concentration Associate in Science
- Pre-Engineering/Physics Associate in Science
- Pre-Medicine/Biology Associate in Science
- Pre-Medicine/Chemistry Associate in Science

Social Work

- Human Services Associate in Arts

Talk to a WCC counselor about the College's wide range of transfer and articulation agreements with four-year institutions.

Salaries

Business
Financial analysts–$86,040
Wholesale and retail buyers–$56,300
Market research analysts and marketing specialists–$66,850

Computer Science
Computer and information research scientists–$103,150
Computer systems analysts–$81,250

Criminal Justice
First-line supervisors of correctional officers–$58,290
First-line supervisors of police and detectives–$80,770

Education
Elementary school teachers–$54,330
Secondary school teachers–$55,990

Exercise Science
Athletic trainers–$44,030

Internet Professional
Web developers (Information security analysts, web developers and computer network architects) –$79,370

Liberal Arts Transfer
Economists–$99,350
Historians–$57,840
Political scientists–$107,930
Social scientists and related workers–$77,890

Math and Science
Conservation scientists –$61,200
Environmental scientists and specialists, including health–$67,810
Physicians or Surgeons–from $173,860 to $225,390 depending on specialization
Engineer–from $74,790 to $127,970 depending on specialization

Social Work
Social workers–$52,270

Salaries are national medians based on the U.S. Bureau of Labor Statistics Occupational Employment Statistics, May 2010.

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REMARKABLE MEDICINE.
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EOE

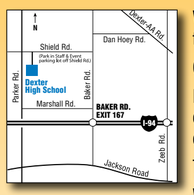
WCC brings college to YOU

Registration starts Nov. 16
for new students
CLASSES START JANUARY 9

In Western Washtenaw County

Dexter Site

Dexter High School, 2200 N. Parker Road, Dexter, 734-424-0388



WCC offers credit classes at Dexter High School, Monday through Thursday.

Classes run at various times starting at 3:30 p.m. until 9 p.m.

Dexter High School students, 15 years and older, can dual enroll in select college classes, with parent and high school counselor approval.

These classes transfer to four-year college programs.

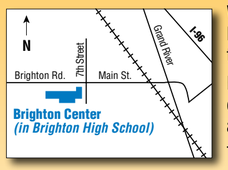
Winter classes include

CIS 100	Introduction to Computers and Software Applications
COM 101	Fundamentals of Speaking
ENG 090	Writing Fundamentals I
ENG 091	Writing Fundamentals II
ENG 111	Composition I
ENG 226	Composition II
ENG 270	Creative Writing I
ENG 271	Creative Writing II
MTH 097	Foundations of Algebra
MTH 160	Basic Statistics
MTH 169	Intermediate Algebra

In Livingston County

Brighton Center

Brighton High School, 7878 Brighton Road, Brighton, 810-299-4195



WCC offers credit classes at Brighton High School, Monday through Thursday. Classes run at various times starting at 3:30 p.m. until 9 p.m.

Brighton High School students, 15 years and older, can dual-enroll in select college classes with parent and high school counselor approval.

These classes transfer to four-year college programs.

Winter classes include

ACS 107	College Study Skills and Speed Reading
ART 101	Introduction to Studio Art
CIS 100	Introduction to Computers and Software Applications
CIS 110	Introduction to Computer Information Systems
COM 101	Fundamentals of Speaking
ECO 222	Principles of Economics II
ENG 090	Writing Fundamentals I
ENG 091	Writing Fundamentals II
ENG 111	Composition I
ENG 226	Composition II
GRM 109	Beginning Conversational German
HSC 101	Healthcare Terminology
HST 202	United States History Since 1877
HUM 102	Humanities II–Renaissance to Modern Times
MTH 097	Foundations of Algebra
MTH 125	Everyday College Math
MTH 160	Basic Statistics
MTH 169	Intermediate Algebra
PLS 112	Introduction to American Government
PSY 100	Introduction to Psychology
PSY 200	Child Psychology
SOC 100	Principles of Sociology
SOC 207	Social Problems

For dates and times of classes go to *www.wccnet.edu/schedule*

Washtenaw Community College
734-973-3543 • www.wccnet.edu

You eat – they learn!

Did you know that Washtenaw Community College's Culinary Arts department has a restaurant and bake shop that are open to the public, day and night?

Enjoy great food while helping a WCC student get an education.

Garrett's

Garrett's Restaurant:
Monday and Tuesday – A La Carte menu
Wednesday and Thursday – Buffet menu
11:30 a.m. to 12:45 p.m.

Garrett's...after Dark:
Friday 5:30 to 7 p.m.
Please call 973-3592 for reservations

WASHTENAW COMMUNITY COLLEGE CULINARY ARTS AND HOSPITALITY MANAGEMENT
The Sweet Spot
ESTABLISHED 2008
STUDENT Bake Shop

The Sweet Spot
Breads and pastries baked by WCC Culinary Arts students
Noon to 1 p.m. Tuesday – Friday

Garrett's restaurant and the Sweet Spot are located on the first floor of the Student Center Building.

WCC WINTER 2012

Registration Starts Nov. 16
for new students
(Nov. 9 for returning students)

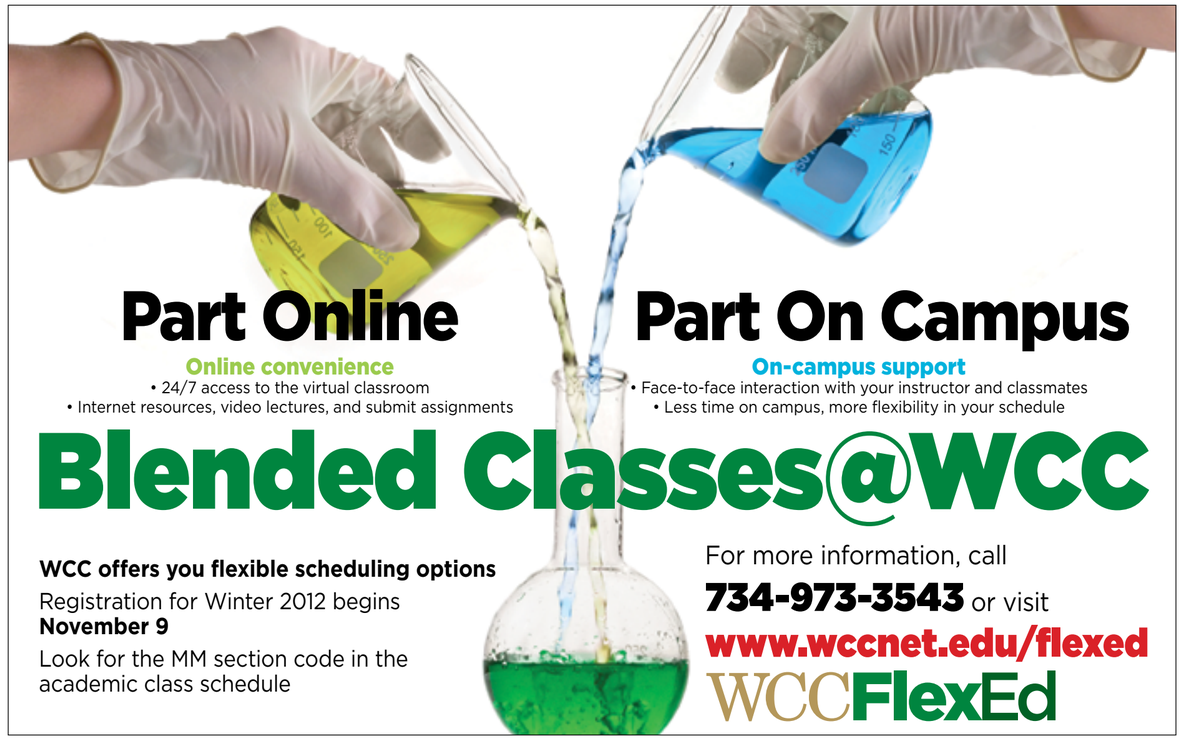
Classes start JANUARY 9

Don't Get Dropped!
Pay by Dec. 8 to keep your seat
Pay the day of registration after Dec. 8

Check out traditional, weekend, blended and online classes

For dates, times and locations of classes go to *www.wccnet.edu/schedule*

Washtenaw Community College



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Blended Classes@WCC

WCC offers you flexible scheduling options

Registration for Winter 2012 begins **November 9**

Look for the MM section code in the academic class schedule

For more information, call
734-973-3543 or visit
www.wccnet.edu/flexed

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- Study abroad: England, Italy, Spain & more
- The Concordia Cardinals are members of the NAIA Division II WHAC Conference

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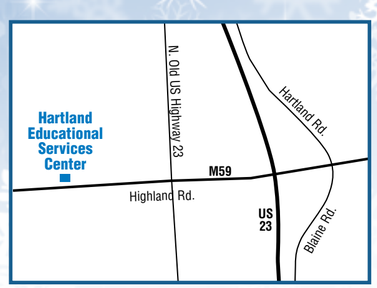
WCC returns to

HARTLAND

Educational Services Center



Because of economic conditions that have affected all of us, as a public institution WCC felt an obligation to save costs by consolidating Livingston County programs into one location—Brighton. Although we will continue to hold classes at Brighton, WCC students and Livingston County residents have told us that WCC was still needed at Hartland as well.

So, starting January 2012, the College will again offer some of the more popular classes – including the very successful Certified Nurse Assistant course -- at the Hartland Educational Services Center.

For dates and times of classes go to *www.wccnet.edu/schedule*

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